

TABLE OF CONTENTS

Volume 51

ARTICLES

KHROMOV, G. S. / Planetary Nebulae	339
KOHNO, TSUYOSHI / Japanese Satellite Program on the Solar Research for the Coming Solar Maximum, II	185
KUROKAWA, HIROKI / High-Resolution Observations of H α Flare Regions	49
MARUBASHI, K. / The Space Weather Forecast Program	197
MGAWARA, Y. / Japanese Satellite Program on the Solar Research for the Coming Solar Maximum, I	175
MHKI, K. / Particle Acceleration in Solar Flares and Some Related Phenomena	215
MKUDAIRA, KIYOAKI / Particle Acceleration as Viewed from the Observations of Flare-Associated Gamma-Ray Emissions	117
SAKURAI, KUNITOMO / High-Energy Phenomena on the Sun: An Introductory Review	1
SAKURAI, TAKASHI / Computational Modeling of Magnetic Fields in Solar Active Regions	11
SCHWENN, RAINER, <i>see</i> Watanabe, Takashi	
TAKAHASHI, KAZUYOSHI / Detection of Solar Neutrons by Ground-Based Neutron Monitor	123
TURNER, B. E. / Recent Progress in Astrochemistry	235
WATANABE, TAKASHI and RAINER SCHWENN / Large-Scale Propagation Properties of Interplanetary Disturbances Revealed from IPS and Spacecraft Observations	147
YOSHIMORI, M. / Observational Studies of Gamma-Rays and Neutrons from Solar Flares	85

BOOK REVIEWS

Akasofu, S.-I. and Y. Kamide (eds.), <i>The Solar Wind and the Earth</i> (Z. KLOS)	232
Atreya, Sushil K., <i>Atmospheres and Ionospheres of the Outer Planets and Their Satellites</i> (J. W. HOVENIER)	229
Böhme, S., U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, and G. Zech (eds.), <i>Astronomy and Astrophysics Abstracts</i> (J. KLECZEK)	230
Christensen-Dalsgaard, J. and S. Frandsen (eds.), <i>Advances in Helio- and Asteroseismology</i> (H. S. HUDSON)	431
Esser, U., H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, and G. Zech (eds.), <i>Astronomy and Astrophysics Abstracts</i> (J. KLECZEK)	431

TABLE OF CONTENTS

Gal-Or, Benjamin, <i>Cosmology, Physics and Philosophy</i> (A. ACHTERBERG)	427
Greeley, Ronald and James D. Iversen, <i>Wind as a Geological Process on Earth, Mars, Venus and Titan</i> (J. L. BERTAUX)	233
Hecker, Frank (ed.), <i>Proceedings of the Fourth Annual LS Space Development Conference</i> (W. DE GRAAFF)	425
Hillebrandt, W., R. Kuhfuß, E. Müller, and J. W. Truran (eds.), <i>Nuclear Astrophysics</i> (C. DOOM)	425
Karttunen, H., P. Kröger, H. Oja, M. Poutanen, and K. J. Donner (eds.), <i>Fundamental Astronomy</i> (R. MEWE)	232
Kerisciunas, K., <i>Astronomical Centers of the World</i> (K. A. VAN DER HUCHT)	432
Kormendy, J. and G. R. Knapp (eds.), <i>Dark Matter in the Universe</i> (H. VAN WOERDEN)	429
Koster, Jean N. (ed.), <i>Low-Gravity Sciences</i> (P. VAN NES)	231
Markov, M. A. (ed.), <i>The Physical Effects in the Gravitational Field of Black Holes</i> (G. 'T HOOFT)	234
Pretzl, K., N. Schmitz, and L. Stodolsky (eds.), <i>Low Temperature Detectors of Neutrinos and Dark Matter</i> (H. DE WAARD)	428
Scheffler, H. and H. Elsässer, <i>Physics of the Galaxy and Interstellar Matter</i> (P. R. WESSELIUS)	426
Shapiro, Maurice M. and John P. Wefel (eds.), <i>Genesis and Propagation of Cosmic Rays</i> (A. J. SOMOGYI)	231
Soffen, Gerald A. (ed.), <i>Visions of Tomorrow: A Focus on National Space Transportation Issues</i> (H. F. VAN BEEK)	234
Stoeger, W. R., S. J. (ed.), <i>Theory and Observational Limits in Cosmology</i> (YUVAL NE'EMAN)	229
Swings, J.-P. (ed.), <i>Reports of Astronomy</i> (C. DE JAGER)	426
Tully, R. B., <i>Nearby Galaxies Catalog</i> (P. C. VAN DER KUIT)	427
Preface	vii